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## Letters

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reports (a few of which have good scientific merit) which have appeared in Mother Earth News over the past seven to eight years, plus many related reports appearing in government and trade journals of Science of projects conducted by CSIRO in Australia, our government in the U.S. Southwest, in Greenland, the Near East, India, etc.

The major objections raised by the status quo and vested interest groups are: (1) it is impractical to spread heavy mulch over large areas. and (2) granting that it is possible, it would take re-education of the farmer, the farm equipment suppliers, and the fertilizer industry. However, those knowledgeable in the art of heavy mulching will tell you that farmers can mulch large areas for about one tenth their present investment in machinery and fertilizer, and crop vields in most cases will double within two to three years. Also, suitable mulching materials are abundantly available to even the largest enterprise, but the sources are so varied and numerous for each area or even individual farm that it must be surveyed on a case-by-case basis.

Other than the unfortunate comment on CO<sub>2</sub>, Zelitch's article was an interesting review of a fascinating subject. I, personally, would like to see much more of this type of knowledge brought closer to the farmer along with an education on the practical application of it. If we allow the purveyors of equipment and chemicals the continuing sole right to disseminate only that terests, we will face continuing poorer-quality food at ever-higher prices.

Raymond A. Pohl

SCL/ AIR Systems, Slidell, La.

SIR: I compliment Israel Zelitch on his fine article on "Photosynthesis and Plant Productivity." Though his review is excellent, I find his approach to broader, long-term objectives, evidenced by the first three paragraphs of the article, regrettably monolithic and tunnel-visioned. Unfortunately, the dogma that the single panacea for solving the world's anticipated food needs in the next quarter century and beyond is "increase production," is by no means limited to Zelitch. But frequent repetition under multiple authorship does not necessarily assure soundness of the principles.

I submit that the only "alternative ... (to) ... the widespread occurrence of an ancient malady called 'starvation' " is not increased food production, but that another equally viable alternative exists, which should be pursued concurrentiv.

The other alternative is to use betterand more efficiently that which has been produced. This can be accomplished through improved postharvest procedures for our food supply between the farm and the ultimate consumer. Potential for accomplishment is great. Losses in the food chain account for, on the average, at least a 20% reduction over the amount produced that reaches the consumer. Some authors estimate

cumulative postharvest losses of 35 to 50% for some agricultural sectors. The postharvest part information which they feel is in their best in- of the food chain in this country accounts for 60% of the consumer's market basket dollar, uses four times as much energy as farm production, and employs five times the number of people as the farm production sector. Improved productivity in the postharvest system has recently lagged behind that of the production sector.

> So the potential is great and the opportunity present for more food, and better quality food, to more people in the future through improvements in quality, storage, preservation, processing, handling, and transportation-all part of the postharvest system.

> We are pleased to see a similar viewpoint espoused by the New York State Agricultural Experiment Stations in a recent publication-New York's Food & Life Sciences Quarterly, Vol. E, 4, 1978-stating: "Emphasis on food production alone is not enough to meet the demands of increasing population pressures, frequent droughts, crop failures, and famines that plague the world. Significant contributions to world food supplies can be made by better use of present toods by decreasing losses throughout the food pipeline...."

> Yes, agricultural production is vital and must be supported, as Zelitch stated. But research in other areas such as postharvest technology also offers fine opportunities for payoff.

> > L.A. Wolff

Director, Science & Education Administration, Agricultural Research, USDA, Philadelphia

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